VERTRAG UBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES PATENTWESENS

PCT

REC'D 16 SEP 2003

INTERNATIONALER VORLÄUFIGER PRÜFUNGSBERICHT

PO PCT

(Artikel 36 und Regel 70 PCT)

(Rationalisierter Bericht gemäß Beschluß des Präsidenten des EPA veröffentlicht im ABI 11/2001)

Aktenzeichen des Anmelders oder Anwalts LEA35906-WO	WEITERES VORGEHEN	siehe Mitteilung über die Ü vorläufigen Prüfungsberich	bersendung des internationalen its (Formblatt PCT/IPEA/416)
Internationales Aktenzeichen PCT/EP 03/ 03180	Internationales Anmelde (Tag Monat Jahr) 27/03/2003	08/04/	tum (Tag Monat Jahr)
Anmelder BAYER CROPSCIENCE AKTIEN 1. Der internationale vorläufige Prüf	CO7C51/377 GESELLSCHAFT et	al mit der internationalen vorläufiger	ı Prüfung beauftragten
2. Dieser BERICHT umfaßt insges Außerdem liegen dem Bericht	melder gemäß Artikel 36 t samt Blätter e ANLAGEN bei; dabei l	ioermitteit.	nreibungen, Ansprüchen und/oder t vor dieser Behörde vorgenom-
Diese Anlagen umfassen insgesam	tBlätter.		
IV Mangelnde Einheitlich V X Begründete Feststellur gewerblichen Anwendl VI Bestimmte angeführte VII Bestimmte Mängel der	s Gutachtens über Neuheit, keit der Erfindung ng nach Artikel 35(2) hinsi barkeit; Unterlagen und E	, erfinderische Tätigkeit und gewerb chtlich der Neuheit, der erfinderisch rklärungen zur Stützung dieser Fest	en Tätigkeit und der
Datum der Einreichung des Antrags		Datum der Fertigstellung dieses l	
28/08/2003		09/09/2003	SOPNISCHES PATENTS
Name und Postanschrift der mit der intern Prüfung beauftragten Behörde Europäisches Patentamt, P NL-2280 HV Rijswijk - Ni Tel.: (+31-70) 340-2040 Fax: (+31-70) 340-3016	.B. 5818 Patentiaan 2 ederlande	Bevollmächtigter Bediensteter VERHULST W Tel. (+49-89) 2399 2828	OPY THE THE OWN OF THE OWN OF THE OWN OF THE OWN OF THE OWN OWN OF THE OWN OWN OF THE OWN
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Internationales Aktenzeichen PCT/EP 03/03180

INTERNATIONALER VORLÄUFIGER PRÜFUNGSBERICHT

I. Grundlage des Berichts

Grundlage dieses Berichtes sind die Anmeldungsunterlagen in der ursprünglich eingereichten Fassung.

V. Begründete Feststellung nach Regel 66.2(a)(ii) hinsichtlich der Neuheit, der erfinderischen Tätigkeit und der gewerblichen Anwendbarkeit

In Anbetracht der im internationalen Recherchenbericht angeführten Unterlagen wird festgestellt, daß die Erfindung, wie sie in den Ansprüchen gekennzeichnet ist, die in Artikel 33(1) PCT aufgeführten Kriterien erfüllt, d.h. als neu, als auf erfinderischer Tätigkeit beruhend und als gewerblich anwendbar anzusehen ist.



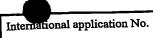
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference LEA35906-WO	FOR FURTHER ACTIO	N SeeNotificat Examination	ionofTransmittalofInternational Preliminary n Report (Form PCT/IPEA/416)
International application No. PCT/EP03/03180	International filing date (date 27 March 2003 (2		Priority date (day/month/year) 08 April 2002 (08.04.02)
International Patent Classification (IPC) or r C07C 51/377, 51/093, 57/30, 59	national classification and IPC /48, 45/46, 49/233		
Applicant BAYER	CROPSCIENCE AKT	TENGESELL	SCHAFT
This international preliminary exammend is transmitted to the applicant a This REPORT consists of a total of	eccording to Article 36.		national Preliminary Examining Authority
This report is also accompar amended and are the basis for 70.16 and Section 607 of the	nied by ANNEXES, i.e., shee or this report and/or sheets co e Administrative Instructions	ets of the descript ontaining rectific under the PCT).	ion, claims and/or drawings which have been ations made before this Authority (see Rule
These annexes consist of a t	otal ofshee	ets.	
3. This report contains indications rel	ating to the following items:		
I Basis of the report			•
Π Priority			
		ovelty, inventive s	step and industrial applicability
Lack of unity of invention Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;			
V Reasoned statement citations and explain	nations supporting such state	ement	mivonavo stop oz mono-am -pp
VI Certain documents	s cited		
VII Certain defects in	the international application		
VIII Certain observation	ns on the international appli	cation	
Date of submission of the demand	D	ate of completion	of this report
28 August 2003 (28.	08.03)	2	4 June 2003 (24.06.2003)
Name and mailing address of the IPEA/E	P	uthorized officer	
Facsimile No.	т	elephone No.	

Translation



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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mational application No.

PCT/EP03/03180

1. The	questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be strially applicable have not been examined in respect of:
\boxtimes	the entire international application.
	claims Nos.
beca	use:
	the said international application, or the said claims Nos
	the description, claims or drawings (indicate particular elements below) or said claims Nos
\boxtimes	the claims, or said claims Nos. 1,2,4-7,9-11 are so inadequately supported by the description that no meaningful opinion could be formed.
\boxtimes	no international search report has been established for said claims Nos
2. A mosequ	eaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid tence listing to comply with the standard provided for in Annex C of the Administrative Instructions: the written form has not been furnished or does not comply with the standard. the computer readable form has not been furnished or does not comply with the standard.

Supplemental Box

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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III.1

Box III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

This report makes reference to the following international search report citations (D), the same numbering will be used in further proceedings:

医乳腺性脓肿 化二氢的复数形式的复数形式的现代 医乳腺管 经收益证券 医胃炎 医胃炎性毒素

- D1: DATABASE ON-LINE MEDICAL DICTIONARY [Online]
 12 December 1998 (1998-12-12)
- D2: FATTORUSO, V ET AL: 'Vademecum Clinique', 2001, MASSON, PARIS
- D3: WO-A-00/62781 (WALDEGGER SIEGFRIED; BROEER STEFAN (DE); KLINGEL KARIN (DE); LANG) 26 October 2000 (2000-10-26) mentioned in the application.
- Claims 3, 8 and 12 were not researched, because they do not comply with the requirements of PCT Rule 5.2. It is therefore impossible to assess the novelty, inventive step and industrial applicability of these claims.
- The technical problem addressed by this application is that of detecting hypertonia experimentally by correlation with a marker protein or a polymorphism. However, Claims 1, 2, 4 to 7, 11 and 13 do not provide a solution to this problem: the detection of hypertonia (systolic blood pressure of at least 140 mmHg; diastolic blood pressure of at least 90 mmHg, see D1 or D2) requires a marker protein or a polymorphism whose presence in a patient represents an incontestable correlation with such a blood pressure. Since the alleged correlation between the polymorphism C-> T in Exon 8 of human homologues of the sgk family or the overexpression of the protein

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III.1

product and the hypertonia was not shown to lie within the above-mentioned blood pressure range, the subject matter of Claims 1, 2, 4 to 7, 11 and 13 does not solve the technical problem.

In the light of D1 and D2, doubts therefore arise as to the technical feasibility of the application and the requirements of PCT Articles 5 and 6 are apparently not satisfied: there is neither support nor complete disclosure that would enable a person skilled in the art to diagnose hypertonia.

It is therefore impossible to assess the novelty, inventive step and industrial applicability of Claims 1, 2, 4 to 7, 11 and 13.

- Even if the above-mentioned defects could be rebutted, the present application would, in fact, still not comply with the requirements of PCT Article 33 for the following reasons:
- 3.1 Document D3 (page 3, lines 1 to 4), which is regarded as the closest prior art, describes that increased expression of human sgk results in hypertonia. It therefore seems that, if a correlation really exists between overexpression of the hsgk protein and hypertonia, Claims 1, 2, 10 and 11 cannot be regarded as novel, and Claims 1, 2, 5, 7, 10 and 11 do not involve an inventive step (the production of a corresponding kit is regarded as obvious for a person skilled in the art).
- 3.2 Claims 1, 2 and 4, which relate to the use of such a correlation, describe a mathematical method (PCT Rule 39.1(i)) and Claims 10, 11 and 13 a diagnostic method

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

mational application No. PCT/EP 02/03180

Supplemental Box
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Continuation of: III.1

which comprises steps that are performed on the human body (PCT Rule 39.1(iv)). Not all the PCT Contracting States (e.g., the EPC States) would regard such claims as industrially applicable within the meaning of PCT Article 33(4).

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